



## Glenn Marks Final Space Shuttle Mission

**Cheers and tears. Pride and hope.**

On July 8, nearly a thousand NASA Glenn employees gathered in the Lewis Field Hangar and Plum Brook Station Engineering Building in anticipation of a once-in-a-lifetime experience. At 11:29 a.m., came the roar of cheers as all eyes glued to large video screens broadcasting the Space Shuttle Atlantis' liftoff and the final flight of NASA's 30-year Space Shuttle Program.

In the hour leading up to that historic flight, Center Deputy Director Jim Free, Space Flight Systems Director Bryan Smith and Chief Technologist Dr. Howard Ross took turns at the podium to address employees at Lewis Field and Plum Brook. During the viewing event, each speaker proudly reminisced about Glenn's contributions to the shuttle program drawing from documented facts and personal anecdotes.

Continued on page 3



C-2011-2101

Photo by Bridget Caswell

*Employees in the Lewis Field Hangar applaud the final launch of Atlantis as it looms into the clouds to begin the STS-135 mission to the International Space Station. Employees gathered at Plum Brook Station as well to celebrate the launch.*

## All Hands Meeting Focuses On Culture Improvements

**Lugo Is Determined to Make a Difference**

The All Hands Meeting on July 15 marked the anniversary of Center Director Ray Lugo's first year at the helm of NASA's Glenn Research Center and another opportunity to share thoughts and concerns with center employees.

As he reflected on some of the challenges of the past year, Lugo affirmed his desire for everyone to personally perform at his or her highest level to maintain Glenn's reputation as a center of excellence.

"I've pushed hard in a lot of areas," Lugo said, "but I want to believe that when my tenure is over, that I've made a difference."

"We've just got to look forward to the next opportunity," he said.

Looking ahead to the center's operations budget for Fiscal Year 2012, Lugo said that the center would be faced with making some hard decisions about where adjustments would be made, but would reserve taking action at this time.

Continued on page 2



C-2011-2133

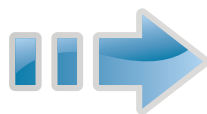
Photo by Bridget Caswell

*Director Lugo addresses center employees at the All Hands Meeting held in the Hangar on July 15.*

Lugo addressed NASA's recent selection of an organization to manage the International Space Station National Laboratory near NASA's Kennedy Space Center. Although disappointed the Ohio team was not selected, Lugo was confident the decision would not affect Glenn's work on future space station payloads.

### In This Issue

- 2 ..... Straight from the Director
- 2 .....Seedling Fund Sprouts
- 5-8 ..... Honor Awards Insert
- 9 ... Employees Walk for Health
- 12 ..... Plum Brook Family Picnic



## Join the Discussion

Following my comments at the recent All Hands meeting, I would like to take this opportunity to clarify some things I said to the first line supervisors.

The job of the first line supervisor is perhaps one of the most difficult jobs we have at the center. Consider for a moment that, for the most part, a first line supervisor is a co-worker/colleague one day, and the next he or she is the “boss.” One must experience that situation to really appreciate the difficulty of the transition. Add to this the fact that, with a few exceptions, many organizations do a less than adequate job of preparing people to take on these new supervisory responsibilities. I believe I have been working to improve the selection process, but sometimes it is difficult to know who will or will not succeed in this transition.

If a supervisor “survives” this transition, then he or she has the opportunity to manage a group of at least 15 to 20 of the highest performing people in the world. Research would suggest that the span of control is in the range of 8 to 10 people for any manager. Now add to this load a number of actions from senior management. This paints a pretty grim picture for one of the most important elements of my management team. So, what am I doing about this, you may ask?

I realize that fixing the supervisory ratio is likely an impossible task. I have been working to make sure that we provide more “management” training so that people who believe this may be in their



*Center Director Lugo*

career path can avail themselves of these opportunities before they are selected into management. I also am looking at ways of how to better manage the “taskings from the top,” but I will not allow the center to fail because we are not doing hard work now.

To ensure everyone is performing to the best of their abilities, I would like your help. First, communication needs to improve. I spend a lot of time sharing what I know, asking a lot of questions, and talking to staff every opportunity I get. Second, while information from the top is important, it is also important for employees to share their perspectives on things they see and concerns they have with their management chain. Finally, as I noted in the meeting, we need to talk about issues and concerns before they become problems. We all need to do a better job of communicating.

I promise to do my share.

## ARMD Seedling Fund Roots Innovative Solutions

Sometimes great ideas can use a little boost. NASA's Aeronautics Research Mission Directorate (ARMD) recently established the Seedling Fund to foster the development within NASA of innovative solutions to aeronautics technical challenges.

The ARMD received 320 notices of intent from researchers representing seven NASA field centers for the 2011 Seedling Fund inaugural competition open to civil servants. Requests to submit full proposals followed the reviews that narrowed the field to 52. Glenn researchers won nine of the 20 grants awarded. The award carries up to \$150,000 a year for a maximum of 2 years to each recipient. The research must demonstrate advances in a new process, novel concept or game-changing technology not currently supported by the ARMD program and project funds.

The following researchers from Glenn's Research and Technology Directorate won a 2011 Seedling grant:

- Glenn Bigelow, Advanced Metallics Branch
- Dr. James DiCarlo, Structures and Materials Division
- Dr. Frederick Dynys, Ceramics Branch
- Dr. Jeffrey Eldridge, Optical Instrumentation and NDE Branch
- Dr. David Jacqmin, Combustion Branch
- Dr. Mary Ann Meador, Durability and Protective Coatings Branch
- Dr. Michael Nathal, Advanced Metallics Branch
- Dr. Sai Raj, Durability and Protective Coatings Branch
- Diana Santiago-deJesus, Ceramics Branch

The ARMD expects to conduct another Seedling Fund solicitation, June 2012. For a complete list of the 2011 winners, their ideas and the potential benefits, visit [http://www.aeronautics.nasa.gov/seedling\\_funds.htm](http://www.aeronautics.nasa.gov/seedling_funds.htm).

## All Hands Meeting

Continued from page 1

Lugo added that the strategy going into the fiscal year is to maintain control [of what the Center has], and to look ahead for more opportunities.

The balance of the meeting focused largely on strategies for improving the results of the Glenn Culture Survey. Lugo engaged employees in a lively question and answer session on writing better performance plans, working smarter and developing a more trusting work environment.

—By S. Jenise Veris



C-2011-2138

Photo by Bridget Caswell

*Dr. Robert Goldberg asks Lugo a question during the All Hands.*

# Employees Enjoy Last Shuttle Launch

Continued from page 1

Deputy Free offered greetings from Center Director Ray Lugo, who watched the launch from NASA's Kennedy Space Flight Center. Free noted that the shuttle is dear to Glenn because many employees have been involved in shuttle-related work throughout the years. He shared how as a young engineer he spent hours on the shuttles' launch pads.

Smith gave an historical perspective of the shuttle with examples of Glenn's usage and accomplishments relating to space shuttle missions. He called the shuttle an "American icon."

Ross reminded employees that the challenges of the shuttle program helped form NASA's can-do attitude and dedication to helping one another for a worthy cause.

About eight minutes into the launch, following the successful main engine cutoff and separation of the external tank, came a second round of cheers before the crowd dispersed to enjoy commemorative cake and conversation at both locations.

STS-135 completed its 12-day mission to the International Space Station on July 21.

—By Doreen B. Zudell



C-2011-2116



Photos by Bridget Caswell & Larry Oppen



C-2011-2110



*Pictured top, clockwise: Cakes at PBS • Cake distribution in the Hangar • Cake and camaraderie at PBS • Students on tour at PBS join launch celebration • Summer interns pose in front of inflatable shuttle at Lewis Field.*

## Soaring Innovation: the Shuttle and Glenn

The Space Shuttle Program stretched the boundaries of what humanity could accomplish in space—from the very first mission on April 12, 1981, to the very last on July 8, 2011.

NASA's Glenn Research Center has provided an array of contributions to the Space Shuttle Program. From helping develop the Space Shuttle Main Engine to ensuring the safety of shuttle launches, Glenn's contributions to the shuttle have been far-reaching in scope and essential to the program's successes.

Glenn's Web Content Editor Tori Woods, SGT/Community and Media Relations Office, has compiled highlights of Glenn's contributions to the Space Shuttle Program in the following areas: • First Shuttle Flight: STS-1 • Ohio's Shuttle Astronauts • Shuttle Experiments • Columbia Accident Investigation • Return to Flight • Stress, Loads and Dynamics • Purge, Vent and Drain.

Log on to [http://www.nasa.gov/mission\\_pages/shuttle/flyout/GlennShuttle.html](http://www.nasa.gov/mission_pages/shuttle/flyout/GlennShuttle.html) to view the article.





## News and Events

### Understanding Diversity's Importance

Glenn's Office of Diversity and Equal Opportunity partnered with the FBI and the U.S. Attorney's Office/Northern Ohio District to expand its 10th Annual Understanding Diversity Workshop, held at the Ohio Aerospace Institute. On June 21 and 22, participants were engaged in a variety of presentations that explored issues pertaining to perception versus reality. The speakers revealed how the absence of historical reference and widespread misinformation can lead to negativity filling the void about people/cultures/religions. Pictured: Antonio Sanford from Winning Against Violent Environments (WAVE), Cleveland Metro School District, leads an exercise on "Flash Judgement," assisted by Brianne Otey (background) and Marvin Foster (not pictured).



Photo by S. Jenise Veris



C-2011-2069

Photos by Bridget Caswell

### Hang Up, Then Buckle Up!

On June 30, employees and student interns participated in a Safe Driving Awareness event at Lewis Field that focused on avoiding common driving distractions. Highlights included interactive driving impairment activities, along with informative displays and discussions with Glenn's Safe Driving Awareness Committee members and representatives from the AAA East Central, Rainbow Babies & Children's Hospital Injury Prevention Center and Cleveland Metroparks. Pictured, left: AAA's Lori Cook aids a student intern in an impairment exercise; right, Elizabeth Hancock, a LERCIP intern and committee member, queried a participant on distracted driving questions at the spinning wheel station.



C-2011-2053

### Good Celebrates Brecksville Bicentennial

Astronaut Michael T. Good, a native of Brecksville, Ohio, helped the city celebrate its bicentennial on June 2. Good, a graduate of Brecksville-Independence High School, served as the Grand Marshal of the Home Days Parade. His wife, Carol, joined in by driving the car.



C-2011-2347

Photo by Michelle Murphy

### Changes Coming to NASA's IT Services



The Office of the Chief Information Officer is integrating and consolidating many Information Technology (IT) services throughout the agency. This new effort is called the IT Infrastructure Integration Program (i3P) and will replace the existing Outsourcing Desktop Initiative for NASA (ODIN). It will affect every employee who uses IT services such as desktops, laptops, networks, copiers, cell phones and pagers. The IT Infrastructure Integration Program will allow the consolidation and central management of agency IT services in the areas of seat ordering, help desk operation, end-user services, web services, network services and business applications. *AeroSpace Frontiers* will provide more detailed information on the changes over the coming months. If you have questions, send them to [grc-i3p-questions@lists.nasa.gov](mailto:grc-i3p-questions@lists.nasa.gov).

# NASA's Glenn Honor Awards 2011

## Lori Garver Joins Salute to Glenn Employees

On July 14, Glenn was privileged to have Deputy Administrator Lori Garver speak and assist Center Director Ray Lugo in presenting the 2011 NASA Honor Awards. Garver applauded Glenn for its history of excellence and the honorees for continuing its legacy through their dedication and contributions to NASA mission success. Below are the individual citations from the Honor Awards program.



### Exceptional Bravery Medal

**Arthur L. Brown**

For outstanding leadership and courageous service in the public interest by rendering aid to a seriously injured vehicle accident victim.

### Exceptional Achievement Medal

**Juan H. Agui**

For exceptional scientific and technical contributions to dust filtration research for Exploration Life Support.



**Rick J. Bailer**

For outstanding and sustained achievements and leadership and commitment to excellence and customer service as Assistant Human Resources Officer.

**Robert J. Bruckner**

For outstanding contributions toward significantly advancing the state of the art of performance modeling of gas bearings critical to future aerospace propulsion systems.

**Carolyn J. Clapper**

For sustained exceptional achievement leading resource integration for the CoNNeCT project, integrating across multiple NASA Centers and prime contractor organizations.



*Agui*



*Bailer*



*Bruckner*



*Clapper*



*Lallier, Jr.*



*Lekki*



C-2011-1420

Photo by Marvin Smith

*Deputy Administrator Garver and Center Director Lugo enjoy the Honor Award festivities.*

**James R. Coy**

For outstanding achievement as the lead engineering technician for Vacuum Facility 16 enabling the continuous operation of the Long Duration Test for more than 5 years.

**Janet B. Hurst**

For innovative research on developing processing techniques for synthesis of high temperature nanotubes and fabrication of nanotube-reinforced composites.

**Mark D. Kankam**

For exceptional achievement in the management of NASA Glenn Research Center's higher educational programs, resulting in significant contributions to Agency STEM objectives.

**Robert F. Lallier, Jr.**

For exceptional initiative and innovation in solving environmental contamination problems at Plum Brook saving \$250K and improving project schedule by 2 years.

**John D. Lekki**

For outstanding innovations in optical communications & in hyperspectral imaging benefiting NASA, the Department of Defense, the National Oceanic and Atmospheric Administration.

**Damian R. Ludwiczak**

For exceptional achievement as the Chief Engineer for the Orion Space Environment Test (SET) Facility Project.

**Brian J. Motil**

For innovations in spacecraft thermal control and pioneering contributions in two-phase liquid-gas flows in packed bed reactors in microgravity environments.

# Honor Awards 2011



*Bruckner*



*Clapper*



*Coy*



*Fraser*



*Gage*



*Garg*



*Gorecki*



*Hack*



*Henderson*



*Hughes*



*Hurst*



*Kankam*

**Gene Pinali**  
For exceptional achievement and dedication in overseeing the development of a comprehensive Facilities Project Management Database.

**Walter Santiago**  
For exceptional achievement in the design, development, fabrication, test, and on-time delivery of the Constellation Program Portable Equipment Panel (PEP).

**William A. Sheredy**  
For exceptional contributions to the ISS Program in the management of the BXF demonstrating outstanding project management acumen, perseverance, and leadership.

**Todd A. Tofil**  
For Exceptional Achievement as the CoNNeCT Lead Systems Engineer.



## Exceptional Technology Achievement Medal

**Ronald D. Noebe**  
For your outstanding research and leadership in pioneering high-temperature shape memory alloy systems and successes in transferring knowledge and technology to U.S. industry.

**Gary D. Roberts**  
For your outstanding contributions to the development and demonstration of lightweight composite fan containment and the successful technology transfer to industry.

## Exceptional Scientific Achievement Medal

**Rafat R. Ansari**  
For exceptional success in the early detection of cataracts to improve long-term public and astronaut health.



*Lallier*



*Lambert*



## Exceptional Engineering Achievement Medal

**Randy R. Bowman**  
For outstanding research and application engineering of critical materials and processes required for the Advanced Stirling Radio Isotope Generator development success.

**Bryan Fraser**  
For exceptional leadership, innovative engineering, and exemplary collaboration with KSC and industry in the development of Constellation's Vehicle Motion Simulator (VMS).

**Dzu K. Le**  
For exceptional engineering achievement in control dynamic analysis.

**Nelson Morales**  
For dedication and outstanding accomplishments toward the successful development of the NASA Space Exploration programs.

## Exceptional Public Service Medal

**Kevin M. Lambert**  
For outstanding contributions to Radio Frequency Antenna Metrology and Electromagnetic Characterization of Materials in support of NASA's Aerospace Communications needs.



**Patricia E. Oleksiak**  
For demonstrating exceptional dedication, commitment, and professionalism in providing occupational health services resulting in improved worker safety and health.

**Euy-Sik (Eugene) E. Shin**  
For significant contributions and dedication to the development and application of polymeric materials in aeronautics, science and exploration applications.



## Exceptional Service Medal

**Kul B. Bhasin**  
For exceptional service leading communications architectures, technologies, and systems for current and future NASA missions.

### Saundra R. Gage

For dedicated service, technical skills, and judgment in providing excellent procurements services and support to NASA Glenn Research Center's Grants Programs.

### Sanjay Garg

For exceptional technical expertise and leadership in developing advanced propulsion controls concepts and advocating integration into major NASA aerospace programs.

### Gary E. Gorecki

For exceptional technical leadership and tireless service as Glenn Research Center's electronics engineering technician expert in space flight avionics development.

### Kurt J. Hack

For demonstrated technical expertise and outstanding leadership in vehicle and mission concept definition, systems engineering, and systems analysis for NASA programs.

### Brenda S. Henderson

For outstanding technical contributions in the field of jet noise.

### Christopher E. Hughes

For outstanding technical contributions to the development of turbofan technology.

### Bradley A. Lerch

For outstanding contributions toward understanding properties of advanced materials and championing the Lean Six Sigma process for improving efficiency of research laboratories.

### Jerri S. Ling

For exceptional dedication and technical excellence in developing an integrated approach to reducing GRC space flight project risk by implementing effective SMA Tech Authority.

### Reinhold Mohr

For sustained, exceptional service, and meritorious leadership furthering the Glenn security program resulting in a safer and more secure workplace.

### Denise L. Ryant

For outstanding performance as a Management Support Assistant as demonstrated by dedication, strong customer focus, and extraordinary level of accomplishment.

### John F. Schubert

For exceptional technical leadership and service in leading high performance teams and operations of unique space test facilities to achieve NASA missions.

### James F. Soeder

For your exceptional contributions to the development of advanced space power systems at GRC and across the Agency.

### Karen J. Weiland

For Exceptional Service as a Project Scientist and Lead Systems Engineer ensuring success in the NASA Manned Space Flight Program.

### John E. Zuzek

For exceptional service in securing critical electromagnetic spectrum allocations and ensuring communications support for current and future NASA space missions.



### Outstanding Leadership Medal

### Michael L. Meyer

For outstanding leadership and vision in leading world-class research and technology development in electric and chemical propulsion and cryogenic fluid management.

### John M. Sankovic

For outstanding leadership of the Space Operations Project Office and developing excellent customer relationships and high-performing teams to accomplish Agency missions.

### Kathleen E. Schubert

For outstanding leadership of the Orion Crew and Service Module in forging a sustainable incremental approach for Orion that meets affordability and performance requirements.

Insert design by Jenise Veris and Kelly Shankland  
Portraits by Michelle Murphy



*Oleksiak*



*Pinali*



*Roberts*



*Ryant*

## Honor Awards 2011



*Le*



*Lekki*



*Lerch*



*Ling*



*Ludwiczak*



*Meyer*



*Mobr*



*Morales*

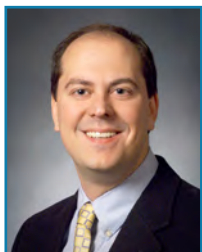


*Motil*



*Noebe*

# Honor Awards 2011



Sankovic



Santiago



Schubert



Schubert



Sberedy



Sbin



Soeder



Tofil



Weiland



Zuzek

## LENGTH OF SERVICE AWARDS

### FORTY-YEAR SERVICE AWARDS

Dennis C. Conrad

Jeffrey E. Haas

Sell James, Jr.

George M. Kanya, Jr. (Retired)

Martin E. Mayer

### FORTY-FIVE YEAR SERVICE AWARD

Hugh M. McLaughlin

### FIFTY-YEAR SERVICE AWARD

Louis A. Povinelli

## GROUP ACHIEVEMENT AWARDS

For a group of government employees or group comprising both government and nongovernment personnel for an outstanding accomplishment through the coordination of many individual efforts, which have contributed substantially to NASA's mission.

Ares I Upper Stage TVC 2 Axis Team

C-MAPSS40K Simulation Development Team

Full-Scale Radiator Demonstration Unit Test Team

GRC and NRL MISSE7 Spaceflight Active Experiments

GRC Network Upgrade Team

GRC NF 533 Financial Analysis Team

Integrated Medical Model-External Module Team

Large-Scale Low-Boom Inlet Model and Test Team

Oxygen/Liquid Methane Rocket Engine Team

NEXT Long Duration Test

NSBRI Monitoring Bone Health Study Team

NSC Audits and Assessments Team

Open Rotor Low Speed Wind Tunnel Test Team

Process Development Group

RTA Fan Research Team



## PRESIDENTIAL RANK AWARD

*The President of the United States of America has conferred upon*

Anita D. Liang

The rank of Meritorious Executive in the Senior Executive Service

*The rank of Meritorious Senior Professional in the Senior Scientific and Professional Corps*

Marvin E. Goldstein

For sustained superior accomplishment in the conduct of programs of the United States Government and noteworthy achievement of quality and efficiency in public service.

## SENIOR EXECUTIVE SERVICE

Therese M. Griebel

Appointed to the position of Chief, Avionics and Electrical Systems Division, effective January 16, 2011.

Richard T. Manella

Appointed to the position of Chief, Chief Engineer Office, effective December 19, 2010.



Goldstein



Griebel



Liang



Manella



## Employees Step Out for Health

### Golden Shoe Awards

Hundreds of employees brushed off their walking shoes to take part in NASA Glenn Research Center's annual Step Out for Health 1.4-mile Walk in May. In addition to the health benefits associated with walking, employees (civil servant and support service contractors) competed for the fourth annual Golden Shoe Awards for the highest percentage of participation. The Office of the Chief Information Officer earned the Golden Shoe trophy in the category of directorate/large office. Plum Brook Station won the Golden Shoe plaque in the category of groups with less than 100 in their organization. Keep walking!

Photos by Eli Abumeri & Larry Oppen



## ISS Forum Showcases Research Opportunities

### Glenn Visitor Center at Great Lakes Science Center

NASA's Glenn Research Center hosted an International Space Station Research Forum in the Glenn Visitor Center at the Great Lakes Science Center on June 17. This event was part of NASA's "Destination: Station," which will showcase the space station as a National Laboratory and offer NASA support to interested researchers.

The goal of the forum was to promote opportunities for research and technology development and feature accomplishments and opportunities for future research aboard the space station among commercial, academic, government and other institutions.

Glenn Deputy Center Director Jim Free welcomed participants and special guests, including Dr. Don Pettit, astronaut and Space Station Program scientist at NASA's Johnson Space Center.

"Frontiers are places where our intuition doesn't apply," Pettit said. "Frontiers are places where the answers are not in the back of the book and frontiers are places where things just don't work the way the way we think things should work. They are places that are rich

in discovery. Space Station is an example of one of these frontiers."

The event included tours of Glenn's premier facilities that support space station research. The Ohio Aerospace Institute and Team NEO, among other local organizations, assisted Glenn in arranging this forum.



C-2011-1696



C-2011-1708

Photos by Bridget Caswell

*Pictured far left: Astronaut Don Pettit. Above: (front left) Glenn's Bob Green and Dan Brown (Zin) brief Case Western Reserve's Dr. James T'ien and Glenn's Gail Perusek on ISS experiments on display: the Capillary Flow Experiments-2 and the Intravenous Fluids Generation hardware.*



## Happy Birthday John Glenn

NASA's Glenn Research Center proudly salutes its namesake astronaut John Glenn, who turned 90 on July 18. The pioneering explorer was the first U.S. astronaut to orbit the Earth in the Friendship 7 spacecraft in 1962. He was also the oldest person to fly to space on STS-95 in 1998.



## Promotions

David Jacobson has been selected for the position of chief of the Space Propulsion Branch in the Mechanical and Fluid Systems Division. Jacobson most recently served in the Space Propulsion Branch, where he supported development of the Orion Service Module propulsion system for the past 5 years.



Jacobson



## Retirements

Patricia A. McElroy, Office of the Chief Information Officer, retired on July 30, 2011, with 32 1/2 years of NASA service.



McElroy



## Dr. Know Helps Solve Safety and Health Issues

"When you need an expert to help solve a safety, health or environmental concern, just contact Dr. Know at [http://smadext.grc.nasa.gov/shed/hazard\\_reporting.shtml](http://smadext.grc.nasa.gov/shed/hazard_reporting.shtml). Dr. Know is staffed by Safety, Health, and Environmental Division (SHED) experts, who will review your submission, assign a safety specialist to investigate, and decide the appropriate course of action. Anyone working at Glenn can submit an anonymous concern via this form, though providing a name does help the responding expert contact the submitter with follow-up facts.

## Cleveland NTA Presents Nsoroma Awards

The Cleveland Chapter of the National Technical Association (NTA) recognized four Glenn employees during its 9th Annual Nsoroma Awards Program, June 10. Nsoroma honorees are women and men of color, in the fields of science, technology and education, who demonstrate outstanding character, personal accomplishment, professional fortitude and community impact. The 2011 Nsoroma awards presented to Glenn honorees include: *Lifetime Achievement Award* to Darlene Walker, Educational Programs Office; *Education Award* to Stephanie Brown-Houston, Educational Programs Office; and the *Prince* (i.e., "rising star") *Award* to Henry Fain, Power Systems Development Branch, and Dr. Antoine Moss, Center Operations Directorate.



Brown-Houston



Fain



Dr. Moss



Walker

*Glenn's Director of Center Operations Robyn Gordon and Director of Research and Technology Dr. Jib-Fen Lei received NTA's Nsoroma Platinum Award. Pictured, left to right: NTA President Dr. Lateef Saffore, Gordon, NTA Vice President Dr. Bilal Bomani, and Dr. Lei.*



## In Appreciation

Thank you to all my NASA colleagues for your kind words and thoughts upon the passing of my mom. The flowers sent to her service in Virginia were beautiful, and I know she would have appreciated them.

—Brett Bednarcyk

## Be a Part of TEDxNASA

NASA Glenn is co-sponsoring TEDxNASA@SiliconValley with NASA Langley, Ames and Dryden on Aug. 17 at the Marriott Marquis, San Francisco. The conference theme is "Extreme Green," with emphasis on the role that Green Technologies can play to improve both life on Earth as well as life in space.

Glenn employees, who are unable to attend the TEDxNASA@SiliconValley conference in San Francisco, can attend via satellite at a free Viewing Party hosted by Glenn's Developing Professionals Club in the Briefing Center beginning 5 p.m. on Aug. 17. To register for the Glenn Viewing Party, visit <http://evt.grc.nasa.gov/tedxNASA/>.





## In Memory

Ronald J. Abel, 74, who retired in 1999 with 42 years of NASA service, died May 27. Abel was a computer engineer, who retired from the Scientific Applications Development Branch, Computer Services Division, where he served his entire career. He was respected among his peers and recognized in several Group Achievement Awards for contributions to application programs, data analysis, mechanical computation and scientific engineering. Notable among his many contributions included serving on the Electric Propulsion Technology Readiness Team (1980) that brought the technology for a 30-cm ion thruster to a state of readiness for use in the Solar Electric Propulsion Project, and the Lewis Data Processing System Design and Implementation Team (1989).



Abel

and implement computer codes applied in various NASA solar, wind and energy projects. She performed studies to determine the life cycle of storage batteries and developed computer applications used to identify appropriate energy conversion systems to advance/improve performance over commercially available technologies. She co-authored several critical reports evaluating the efficiencies of these systems, including coal gasification combined-cycle cogeneration for power plants and a gas-core nuclear rocket engine system. Easley advocated for the advancement of women, and she mentored minority men and women at the center as well as youth in the community. She co-founded the center's Business and Professional Women's (BPW) Chapter and NASA Lewis Ski Club where she enjoyed the camaraderie and continued to participate as a retiree. Many co-workers admired and respected her pursuit of excellence and joy in living.



Easley

Annie J. Easley, 79, who retired in 1989 with 34 years of NASA service, died on June 25. Easley was a mathematician/computer scientist who helped develop

Charles L. "Chuck"

Zola, 77, who retired in 1990 with 33 years of NASA service, died on June 29. Zola joined the Lewis workforce as an aeronautical engineer working on advanced aircraft propulsion studies, including a hydrogen-fueled ramjet and its test facility designed for Mach 6. Later, Zola served as a trajectory and propulsion specialist in space mission analysis and feasibility studies. He was team lead and project manager for a variety of in-house and contracted studies for aeropropulsion technology planning programs and concepts, including a supersonic short takeoff vertical landing (STOVL) for military aircraft. Zola also served as a NASA representative in the U.S./U.K. Advanced Short Takeoff Vertical Landing (ASTOVL) joint technology program. He received several Special Achievement Awards and authored/co-authored over 20 technical reports during his NASA career.



Zola

### FOLLOW NASA GLENN ONLINE



### Article Deadlines

News items and brief announcements for publication in the September issue is noon, August 19. Larger articles require at least one month notice.

**READ US ON THE INTERNET:**

<http://aerospacefrontiers.grc.nasa.gov>

Hermes  
Award  
2010-  
2011



## Calendar

### RETIRED NASA WOMEN LUNCHEON:

The next luncheon will be Thursday, August 18, at noon at Don's Pomeroy House, 13664 Pearl Road, Strongsville. Please call Gerry Ziemba at 330-273-4850 or at [gto64gerry@yahoo.com](mailto:gto64gerry@yahoo.com) for reservations.

### NASA GLENN VISITOR CENTER: FREE

General Admission to the NASA Glenn Visitor Center and to the Great Lakes Science Center, every Tuesday, for all youth (18 and under and accompanied by an adult).

### FARMER'S MARKET & WALK:

Mark your calendar for Sept. 1 from 11 a.m. to 4 p.m. for a Farmer's Market and Employee Walk at the Picnic Grounds and track. Come enjoy fresh Ohio grown produce and products, entertainment and luncheon items.

### PUBLIC TOURS SCHEDULED:

Glenn's next public tour is scheduled for Saturday, Sept. 10. Guests will visit the Simulated Lunar Operations (SLOPE) facility—home to a 60-foot long sandpit—where Glenn engineers test moon rovers. Tours are free, available to U.S. citizens and foreign national students in grades K-12. Reservations are required. Call 216-433-9653 for details.

### POW/MIA OBSERVANCE:

Glenn's Veterans Awareness Committee will hold its annual POW/MIA day observance on Sept. 16 in the Administrative Building Auditorium. The program will feature Joe Hudson, a former POW from Operation Iraqi Freedom and the Lorain JROTC honor guard.

### IFPTE LOCAL 28, LESA MEETING:

LESA will hold its next membership meeting on Wednesday, Sept. 14 at noon in the Small Dining Room of the Employee Center.

### IMPROVE YOUR SPEAKING SKILLS:

The Aerospace Toastmasters' meetings are held every Thursday from noon to 12:45 p.m. in building 54, room 101. POC: Gayle Roth, 216-433-5329.

Check out the NASA Glenn's Exchange On-Line Gift Shop at [www.nasagiftshop.com](http://www.nasagiftshop.com)

## National Aeronautics and Space Administration

### John H. Glenn Research Center at Lewis Field

21000 Brookpark Road  
Cleveland, Ohio 44135

[www.nasa.gov](http://www.nasa.gov)

*AeroSpace Frontiers* is an official publication of Glenn Research Center, National Aeronautics and Space Administration. It is published the second Friday of each month by the Community and Media Relations Office in the interest of the Glenn workforce, retirees, government officials, business leaders and the general public. View us online at <http://aerospacefrontiers.grc.nasa.gov>. Submit contributions via e-mail to the editor: [doreen.b.zudell@nasa.gov](mailto:doreen.b.zudell@nasa.gov) or 216-433-5317.

Editor: **Doreen B. Zudell**, SGT, Inc.

Assistant Editor: **S. Jenise Veris**, SGT, Inc.

Managing Editor: **Kelly R. DiFrancesco**



VOLUME 13 ISSUE 8 AUGUST 2011

## Plum Brook Picnic Draws Employees, Family and Friends

The Plum Brook Activities Committee hosted its inaugural Summer Family & Friends Picnic on July 15. Personnel, along with their families and friends, gathered at the Engineering Building Cafeteria and grounds to enjoy an afternoon of fun and fellowship. Hot dogs and hamburgers sizzled on the grill while families enjoyed activities such as corn hole, science demonstrations and self-guided tours of select facilities. EVA the inflatable astronaut also stopped by to mingle with the crowd.



Photos by Larry Oppen

